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Assistant and BLAST plug-in

NEWS 33 JUN 30 STN AnaVist enhanced with database content from EPFULL

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chain nodes :
14 15 16 17 19 20 21 22 24 25 26 27 28 29 30 31 35 36 37 38 39
40
ring nodes :
1 2 3 4 5 6 7 8 9 10 11
                                   12
chain bonds :
1 - 36 \quad 2 - 20 \quad 3 - 38 \quad 4 - 37 \quad 5 - 8 \quad 6 - 35 \quad 7 - 24 \quad 7 - 25 \quad 9 - 30 \quad 9 - 31 \quad 10 - 28 \quad 10 - 29 \quad 11 - 14
12-26 12-27 14-15 15-16 15-19 16-17 17-39 20-21 20-22 39-40
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
1-36 3-38 4-37 5-8 6-35 7-8 7-12 7-24 7-25 8-9 9-10 9-30 9-31 10-11
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20-22 39-40
exact bonds :
2-20
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 : 7 :
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 1:Atom
 2:Atom
 3:Atom
 4:Atom
 5:Atom
 6:Atom
 7:Atom
 8:Atom
 9:Atom
 10:Atom

 11:Atom
 12:Atom
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 17:CLASS
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G3 C, H

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FILE COVERS 1907 - 30 Jun 2008 VOL 149 ISS 1 FILE LAST UPDATED: 29 Jun 2008 (20080629/ED)

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L3 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:90959 CAPLUS

DOCUMENT NUMBER: 148:193100

TITLE: Photolatent bases for polyurethane adhesives INVENTOR(S): Studer, Katja; Junq, Tunja; Dietliker, Kurt

PATENT ASSIGNEE(S): CIBA Specialty Chemicals Holding Inc., Switz. SOURCE: PCT Int. Appl., 23pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PA' | ATENT NO. | | | | KIN | D | DATE | | | APPL | ICAT | ION | NO. | | D. | ATE | |
|-----|-----------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| WO | 2008 | 0095 | 75 | | A2
A3 | | 2008
2008 | | | WO 2 | 007- | | | | 2 | 0070 | |
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PT, | CN,
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KR,
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TG, | BF,
BW, |

PRIORITY APPLN. INFO.: EP 2006-117329 A 20060717

AB A method of bonding a first substrate to a second substrate, comprises the steps of (a) applying an UV-curable adhesive resin composition comprising a photolatent base to at least one transparent surface of at least one of said first and second substrates, (b) bringing said first and second substrates together with said adhesive composition there between, (c) exposing said adhesive composition to affect curing.

IT 1003309-81-6 RL: CAT (Catalyst use); USES (Uses)

(photolatent base; photolatent bases for adhesives)

RN 1003309-81-6 CAPLUS

CN 1-Piperazinepropanoic acid, 4-[4-[2-(dimethylamino)-1-oxo-2-(phenylmethyl)butyl]phenyl]-, 1,1'-[oxybis(2,1-ethanediyloxy-2,1-ethanediyl)] ester (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

L3 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:456844 CAPLUS

DOCUMENT NUMBER: 144:469729

TITLE: Piperazino based multi-functional photoinitiators, preparation and uses

INVENTOR(S):

Herlihy, Shaun Lawrence; Rowatt, Brian; Davidson,

Robert Stephen

Sun Chemical Limited, UK PATENT ASSIGNEE(S):

Brit. UK Pat. Appl., 27 pp. SOURCE: CODEN: BAXXDU

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| | PATENT NO. | | | | | | DATE | | | | PLICAT | | | | | ATE | |
|----------|------------|-------|------|-----|-----|-----|------|------|-----|----|--------|------|------|-----|-----|------|-----|
| GB | 2420 | 117 | | | A | | 2006 | 0517 | | GB | 2004- | 2483 | 1 | | 2 | 0041 | 110 |
| AU | 2005 | 3265 | 56 | | A1 | | 2006 | 0810 | | ΑU | 2005- | 3265 | 56 | | 2 | 0051 | 109 |
| CA | 2587 | 383 | | | A1 | | 2006 | 0810 | | CA | 2005- | 2587 | 383 | | 2 | 0051 | 109 |
| WO | 2006 | 0824 | 77 | | A1 | | 2006 | 0810 | | WO | 2005- | IB41 | 57 | | 2 | 0051 | 109 |
| | W: | ΑE, | AG, | AL, | AM, | AT, | AU, | ΑZ, | BA, | BE | BG, | BR, | BW, | BY, | ΒZ, | CA, | CH, |
| | | CN, | CO, | CR, | CU, | CZ, | DE, | DK, | DM, | D2 | Z, EC, | EE, | EG, | ES, | FI, | GB, | GD, |
| | | GE, | GH, | GM, | HR, | HU, | ID, | IL, | IN, | IS | JP, | KE, | KG, | KM, | KN, | KP, | KR, |
| | | KZ, | LC, | LK, | LR, | LS, | LT, | LU, | LV, | L) | 7, MA, | MD, | MG, | MK, | MN, | MW, | MX, |
| | | MZ, | NA, | NG, | NΙ, | NO. | NZ, | OM, | PG, | PF | I, PL, | PT, | RO, | RU, | SC, | SD, | SE, |
| | | SG, | SK, | SL, | SM, | SY | TJ, | TM, | TN, | TF | R, TT, | TZ, | UA, | UG, | US, | UΖ, | VC, |
| | | VN, | YU, | ZA, | ZM, | ZW | | | | | | | | | | | |
| | RW: | | | | | | | | | | E, ES, | | | | | | |
| | | IS, | IT, | LT, | LU, | LV, | MC, | NL, | PL, | P1 | r, RO, | SE, | SI, | SK, | TR, | BF, | ВJ, |
| | | CF, | CG, | CI, | CM, | GA, | GN, | GQ, | GW, | MI | , MR, | NE, | SN, | TD, | TG, | BW, | GH, |
| | | GM, | KE, | LS, | MW, | MZ, | NA, | SD, | SL, | SZ | z, TZ, | UG, | ZM, | ZW, | AM, | ΑZ, | BY, |
| | | | | | RU, | | | | | | | | | | | | |
| EP | | | | | | | | | | | 2005- | | | | | | |
| | R: | | | | | | | | | | E, ES, | | | | | | |
| | | | | | | | | | | | , PT, | | | | | | |
| | | | | | | | | | | | 2007- | | | | | | |
| CN | 1011 | 3304 | 1 | | A | | 2008 | 0227 | | CN | 2005- | 8003 | 8507 | | 2 | 0070 | 510 |
| IN | 2007 | DN 04 | 356 | | A | | 2007 | 0824 | | ΙN | 2007- | DN43 | 56 | | 2 | 0070 | 607 |
| | | | | | | | | | | | 2007- | | | | | | |
| | | | | | | | 2008 | 0221 | | US | 2007- | 7189 | 52 | | 2 | 0070 | 927 |
| PRIORIT: | Y APP | LN. | INFO | .: | | | | | | | 2004- | | | | | | |
| | | | | | | | | | | WO | 2005- | IB41 | 57 | | W 2 | 0051 | 109 |
| OTHER SO | | | | | MAR | PAT | 144: | 4697 | 29 | | | | | | | | |

$$\begin{bmatrix} R^2 & R^1 & 0 \\ R^2 - N - C - C' & & & \\ R^1 & & & N - Z - Y - Q \\ & & & & & & \end{bmatrix}$$

AB An aminoacetophenone-substituted piperazine compound is of formula I, wherein the substituents R1 are individually selected from C1-C10 alkyl groups and optionally substituted benzyl groups; the substituents R2 are individually selected from alkyl groups or, together with the nitrogen atom to which they are attached, represent a nitrogen-containing heterocyclic group; Z is selected from C6-C10 arylene groups and groups of formula -- (CHR3)n--, where R3 is a hydrogen atom, a hydroxy group or a C1-C4 alkyl group, and n is a number from 0 to 6; Y is selected from carbonyl groups and the -CH2- group; O is selected from the residues of mono- or polyhydroxy compds. having from 1 to 6 hydroxy groups; and x is a number from 1 to 6; and esters thereof. Preferred possibilities for Q include residues of ethylene glycol, propylene glycol, butylene glycol, glycerol, 2,2-propanediol, polyethylene glycol, polypropylene glycol, trimethylolpropane, di-trimethylolpropane, pentaerythritol and di-pentaerythritol. These compds. may be useful as multi-functional photoinitiators for use in coating compns. to be cured by radiant energy. ΙT 886463-10-1P 886463-11-2P 886463-12-3P

IIT 886463-10-1P 886463-11-2P 886463-12-3P
886463-13-4P 886463-14-5P 886463-15-6P
RL: CAT (Catalyst use); PRP (Properties); SPN (Synthetic preparation);
PREP (Preparation); USES (Uses)

(piperazino based multi-functional photoinitiators, preparation and uses) RN 886463-10-1 CAPLUS

CN Poly(oxy-1,2-ethanediyl), α =[3-[4-[4-[2-(dimethylamino)-2-(phenylmethyl)-1-oxobutyl]phenyl]-1-piperazinyl]-1-oxopropyl]- ω =[3-[4-[4-[2-(dimethylamino)-2-(phenylmethyl)-1-oxobutyl]phenyl]-1-piperazinyl]-1-oxopropoxyl- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

$$\begin{array}{c} \text{O } \text{CH}_2\text{-Ph} \\ \text{C-C-Et} \\ \text{NMe}_2 \end{array}$$

RN 886463-11-2 CAPLUS

CN

1-Piperazinepropanoic acid, 4-[4-[2-(dimethylamino)-1-oxo-2-(phenylmethyl)butyl]phenyl]-, 2,2-bis[[3]-[4-[4-[2-(dimethylamino)-1-oxo-2-(phenylmethyl)butyl]phenyl]-1-piperazinyl]-1-oxopropoxy]methyl]butyl ester (CA INDEX NAME)

PAGE 1-B

NMe2

C-C-Et

O CH2-Ph

RN 886463-12-3 CAPLUS

¹⁻Piperazinepropanoic acid, 4-[4-[2-(dimethylamino)-1-oxo-2-(phenylmethyl)butyl]phenyl]-, 2,2-bis[[3-[4-[4-[2-(dimethylamino)-1-oxo-2-

(phenylmethy1)buty1]pheny1]-1-piperaziny1]-1-oxopropoxy]methy1]-1,3propanediy1 ester (9CI) (CA INDEX NAME)

PAGE 2-A

PAGE 2-B

PAGE 3-A

RN 886463-13-4 CAPLUS

CN Poly(oxy-1,2-ethanediy1), α -[3-[4-[4-[2-methy1-2-(4-morpholiny1)-1-oxopropy1]pheny1]-1-piperaziny1]-1-oxopropy1]- α -[3-[4-[4-[2-methy1-2-(4-morpholiny1)-1-oxopropy1]pheny1]-1-piperaziny1]-1-oxopropoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

$$-CH_{2} - \int_{n}^{0} O - C - CH_{2} - CH_{2} - N$$

- RN 886463-14-5 CAPLUS

PAGE 1-A

PAGE 1-B

PAGE 2-A

886463-15-6 CAPLUS RN CN

PAGE 1-A

PAGE 2-A

PAGE 2-B

PAGE 3-A

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

GT

L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:8311 CAPLUS

DOCUMENT NUMBER: 142:116228

TITLE: Piperazine-based radiation curing sensitizers

INVENTOR(S): Davidson, Robert Stephen; Herlihy, Shaun Lawrence;

Rowatt, Brian
PATENT ASSIGNEE(S): Sun Chemical Limited, UK

SOURCE: Brit. UK Pat. Appl., 28 pp.

CODEN: BAXXDU DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| | PATENT NO. | | | | KIN |) | | | | | ICAT | | | | | ATE | |
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| | 2403 | | | | A | | | | | | | | | | | | |
| WO | 2005 | 0076 | 37 | | A1 | | 2005 | 0127 | | WO 2 | 004- | US21 | 370 | | 2 | 0040 | 702 |
| | W: | AE. | AG. | AL. | AM. | AT. | AU, | A7. | BA. | BB. | BG. | BR. | BW. | BY. | B7. | CA. | CH. |
| | | | | | | | DE, | | | | | | | | | | |
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| | RW: | BW, | GH, | GM, | KE, | LS, | MW, | ΜZ, | NA, | SD, | SL, | SZ, | TZ, | UG, | ZM, | ZW, | ΑM, |
| | | AZ, | BY, | KG, | KZ, | MD, | RU, | TJ, | TM, | AT, | BE, | BG, | CH, | CY, | CZ, | DE, | DK, |
| | | EE. | ES. | FI. | FR. | GB. | GR, | HU. | IE. | IT. | LU. | MC. | NL. | PL. | PT. | RO. | SE. |
| | | | | | | | CF, | | | | | | | | | | |
| | | | TD, | | , | , | , | , | , | 0, | , | ., | 021 | , | , | , | , |
| FD | 1660 | | | | 7.1 | | 2006 | 0521 | | ED 2 | 004- | 7774 | 00 | | 2 | 0040 | 702 |
| E.F | | | | | | | | | | | | | | | | | |
| | K: | | | | | | ES, | | | | | | | ML, | SE, | PIC, | Р1, |
| | | | | | | | TR, | | | | | | | | | | |
| CN | 1845 | 912 | | | A | | 2006 | 1011 | | CN 2 | 004- | 8002 | 5346 | | 2 | 0040 | 702 |
| US | 2007 | 0066 | 700 | | A1 | | 2007 | 0322 | | US 2 | 006- | 5673 | 10 | | 2 | 0061 | 129 |
| PRIORIT' | Y APP | LN. | INFO | . : | | | | | | GB 2 | 003- | 1577 | 4 | | A 2 | 0030 | 704 |
| | | | | | | | | | | WO 2 | 004- | us21 | 370 | | W 2 | 0040 | 702 |
| OTHER S | OURCE | (S): | | | MAR | PAT | 142: | 1162 | | | | | | | | | |

$$\begin{bmatrix} R1 - CO & N - Z - Y - Q & X & I \end{bmatrix}$$

AB A piperazine-based compound of formula I and esters thereof are useful as sensitizers for use in radiation-curable compns. wherein: RI represents a Me group, an Et group, a C5 or C6 cycloalkyl group or a C6 - C10 aryl group, said aryl group being unsubstituted or being substituted by at least one C1 - C4 alkyl or alkoxy group; Z represents a C6 - C10 arylene group or a group of formula --(CHR4)n--, where R4 represents a hydrogen atom, a hydroxy group or a C1 - C4 alkyl group, and n is a number from 0 to 6; Y represents a carbonyl group or a --CH2-- group, provided that R4 represents a hydroxy group when Y represents a --CH2-- group; Q represents a residue of a mono- or poly-hydroxy compound having from 1 to 6 hydroxy

- groups; and x is a number from 1 to 6.
- T 819866-14-3P 819866-15-4P 819866-17-6P 819866-18-7P 819866-20-1P 820232-39-1P

820232-41-5P

RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(piperazine-based radiation curing sensitizers)

RN 819866-14-3 CAPLUS

CN Poly(oxy-1,2-ethanediyl), α-hydro-ω-[3-[4-(4-acetylphenyl)-1-piperazinyl]-1-oxopropoxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

- RN 819866-15-4 CAPLUS
- CN Poly(oxy-1,2-ethanediyl), α-hydro-ω-[3-[4-(4-acetylphenyl)-1-piperazinyl]-1-oxpropoxyl-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1) (9C1) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

RN 819866-17-6 CAPLUS

CN Poly(oxy-1,4-butanediy1), α-[[4-(4-acetylpheny1)-1-piperaziny1]acetyl]-ω-[[[4-(4-acetylpheny1)-1-piperaziny1]acetyl]oxy]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

RN 819866-18-7 CAPLUS

CN Poly(oxy-1, 4-butanediy1), α -[2-[4-(4-acetylpheny1)-1-piperaziny1]-1-oxopropy1]- α -[2-[4-(4-acetylpheny1)-1-piperaziny1]-1-oxopropoxy]-(9C1) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

RN 819866-20-1 CAPLUS

CN Poly(oxy-1,2-ethanediyl), \(\alpha \), \(\alpha \)

PAGE 1-A

PAGE 1-B

RN 820232-39-1 CAPLUS

CN Poly(oxy(methyl-1,2-ethanediyl)], a,a'-(2,2-dimethyl-1,3propanediyl)bis[@-[3-[4-(4-acetylphenyl)-1-piperazinyl]-1oxopropoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

$$-CH_{2} - O - (C_{3}H_{6}) - O - C - CH_{2} - CH_{2} - N$$

RN 820232-41-5 CAPLUS

CN Poly[oxy(methyl-1,2-ethanediyl)], α,α',α',α'-1,2,3propanetriyltris(ω-[3-[4-(4-acetylphenyl)-1-piperazinyl]-1oxopropoxy]- (9CI) (CA INDEX NAME)

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chain nodes :
14 15 16 17 19 20 21 22 25 26 27 28 29 30 31 32
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
5-8 7-25 7-26 9-31 9-32 10-29 10-30 11-14 12-27 12-28 14-15 15-16 15-19
16-17 20-21 20-22
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
5-8 7-8 7-12 7-25 7-26 8-9 9-10 9-31 9-32 10-11 10-29 10-30 11-12
11-14 12-27 12-28 14-15 15-16 15-19 16-17 20-21 20-22
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 : 7 :
G1:Cb, Ak
G2:H,O
```

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS 15:CLASS 16:CLASS 17:CLASS 19:CLASS 20:CLASS 21:Atom 25:CLASS 26:CLASS 27:CLASS 29:CLASS 29:CLASS

30:CLASS 31:CLASS 32:CLASS

G3:C,H Match level :

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FILE COVERS 1907 - 30 Jun 2008 VOL 149 ISS 1
FILE LAST UPDATED: 29 Jun 2008 (20080629/ED)
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Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

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L6 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:1257556 CAPLUS

DOCUMENT NUMBER: 147:180509

TITLE: Estimation of phospholipophilicity of

1-[3-(arylpiperazin-1-yl)-propyl]-pyrrolidin-2-one derivatives on immobilized artificial membrane stationary phase and its correlation with biological

data

AUTHOR(S): CORPORATE SOURCE:

Kulig, Katarzyna; Malawska, Barbara Department of Physicochemical Drug Analysis, Faculty

of Pharmacy, Medical College Jagiellonian University, Krakow, 30-688, Pol.

SOURCE: Biomedical Chromatography (2006), 20(11), 1129-1135 CODEN: BICHE2; ISSN: 0269-3879

PUBLISHER: John Wiley & Sons Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

BAB A mol. library containing 42 1-[3-(arylpiperazin-1-yl)-propyl]-pyrrolidin-2one derivs. has been designed and synthesized. The phospholipophilicity
of the obtained compds. has been determined using immobilized artificial
membrane high-performance liquid chromatog. (IAM-HPLC). The performed anal.
allowed the calen. of log kwe values for each of the tested compds.
Exptl. phospholipophilicity data (log kwe) has been compared with the
affinity of the tested compds. to a2-adrenoceptors. Performed
quant. structure-activity relationship studies indicated that, for the
tested compds., there are dependences between affinity for
a2-adrenoceptors and their log kwe values. The obtained results
confirmed that the applied chromatog. IAM-HPLC method could be useful in
fast characterization of the phospholipophilicity of structurally closely
related compds. as well as for larger series of compds., such as drug
candidates. It could also be used as a tool for further research into
this group of compds.

IT 944402-80-6

RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(phospholipophilicity of 1-[3-(arylpiperazin-1-yl)-propyl]-pyrrolidin-2-one derivs. dependence on affinity for $\alpha 2$ -adrenoceptors for drug discovery)

RN 944402-80-6 CAPLUS

CN 2-Pyrrolidinone, 1-[3-[4-(2-acetylphenyl)-1-piperazinyl]-2-methoxypropyl]-(CA INDEX NAME)

REFERENCE COUNT:

27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:1330455 CAPLUS

DOCUMENT NUMBER: 144:51611

TITLE: Preparation of disubstituted

phenylpiperidines/piperazines as modulators of dopamine neurotransmission

INVENTOR(S): Sonesson, Clas; Swanson, Lars; Waters, Nicholas

A. Carlsson Research AB, Swed. PATENT ASSIGNEE(S):

SOURCE: PCT Int. Appl., 108 pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

| PA1 | ENT | NO. | | | KIN | | DATE | | | | | ION: | | DATE | | | |
|-----|------|------|-----|-----|-----|-----|----------------------|------|-----------------------------------|------|------|------|------|------|-----|--------------|-----|
| wo | 2005 | 1210 | 87 | | A1 | _ | 2005 | | | | | EP61 | | | 2 | 0050 | 608 |
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| | | CN, | CO, | CR, | CU, | CZ, | DE, | DK, | DM, | DZ, | EC, | EE, | EG, | ES, | FI, | GB, | GD, |
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| | | LC, | LK, | LR, | LS, | LT, | LU, | LV, | MA, | MD, | MG, | MK, | MN, | MW, | MX, | MZ, | NA. |
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| | RW: | BW, | GH, | GM, | KE, | LS, | MW, | MZ, | NA, | SD, | SL, | SZ, | TZ, | UG, | ZM, | ZW, | AM |
| | | AZ, | BY, | KG, | KZ, | MD, | RU, | TJ, | TM, | AT, | BE, | BG, | CH, | CY, | CZ, | DE, | DK. |
| | | EE, | ES, | FI, | FR. | GB, | GR, | HU, | IE, | IS, | IT, | LT, | LU, | MC, | NL, | PL, | PT. |
| | | RO. | SE, | SI, | SK, | TR, | BF. | BJ, | CF, | CG, | CI, | CM, | GA, | GN, | GO. | GW, | ML |
| | | MR. | NE. | SN. | TD, | TG | | | | | | | | | | | |
| AU | 2005 | | | | A1 | | 2005 | 1222 | | AU 2 | 005- | 2519 | 06 | | 2 | 0050 | 608 |
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CA 2005-2569840 | | | | | | 2 | 0050 | 608 |
| CA | 2569 | 840 | | | A1 | | 2005 | 1222 | | CA 2 | 005- | 2569 | 840 | | 2 | 0050
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| CA | 2569 | 843 | | | A1 | | 2005 | 1222 | CA 2005-2569843 | | | | | | 2 | | |
| WO | 2005 | 1210 | | | A1 | | 2005 | 1222 | | | | | | | 2 | 0050 | 608 |
| | W: | AE, | AG, | AL, | AM, | AT, | AU, | AZ, | BA, BB, BG, BR, BW, BY | | | | | BY, | BZ, | CA, | CH |
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| | | MR. | | SN, | | TG | | | , | | | | | | | | |
| EP | 1768 | | | | A1 | | 2007 | 0404 | | EP 2 | 005- | 7465 | 89 | | 2 | 0050 | 608 |
| | R: | AT. | BE, | BG, | CH. | CY, | CZ, | DE, | DK, | EE, | ES, | FI, | FR. | GB, | GR. | HU, | IE. |
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| EP | 1773 | | | | A1 | | 2007 | | | | | 7606 | | | | 0050 | 608 |
| | R: | AT. | BE. | BG, | CH. | | CZ, | | | | | | | GB, | GR. | HU. | IE. |
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| CN | 1997 | | | | A | | 2007 | 0711 | | | | 8002 | | , | | 0050 | 608 |
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     MX 2006PA13944
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    MX 2006PA13941
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                                            IN 2007-DN67
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     NO 2007000124
                                20070308
                                            NO 2007-124
                                                                    20070108
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                                            KR 2007-700513
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     KR 2007050425
                                20070515
PRIORITY APPLN. INFO .:
                                            SE 2004-1464
                                                                   20040608
                                            US 2004-577953P
                                                                 P 20040608
                                            SE 2004-3142
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                                            US 2004-637530P
                                                                   20041220
                                            WO 2005-EP6147
                                                                W 20050608
                                            WO 2005-EP6154
                                                                W 20050608
OTHER SOURCE(S):
                        CASREACT 144:51611; MARPAT 144:51611
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R1 R2

AB Title compds. I [X = N, CH; R1 = OSO2CF3, OSO2CH3, NHSO2CH3, etc.; R2 = CN, CF3, OH, NH2, etc.; R3 = alkyl, allyl, CH2CH2OCH3, etc.] are prepared For instance, 4-[2-fluoro-3-(methylaulfonyl)]phenyl]-1-propylpiperidine (II) is prepared in 5 steps from 4-[2-fluoro-3-(methylthio)phenyl]-1,2,3,6-tetrahydropyridine and 1-iodopropane. II had ED50 = 28 µmol/kg on increase of DOPAC (3,4-dihydroxyphenylacetic acid) in the rat striatum. I have therapeutic effects against disorders in the central nervous system.

II 871355-49-6P. 1-[3-[4-(2-Methoxyethyl)piperazin-1-v1]-2-

methylphenyl|ethanone 871355-53-2P, 1-[2-Flooro-3-[4-(2-methoxyethyl)piperazin-1-yl]phenyl]ethanone 871355-57-6P, 2-Acetyl-6-[4-(2-methoxyethyl)piperazin-1-yl]benzonitrile 871355-61-2P, 1-[2-Chloro-3-[4-(2-methoxyethyl)piperazin-1-yl]phenyl]ethanone 871357-07-2P, 2,2,2-Trifluoro-1-[3-[4-(2-methoxyethyl)piperazin-1-yl]phenyl]ethanone 871357-11-8P, 2,2,2-Trifluoro-1-[2-fluoro-3-[4-(2-methoxyethyl)piperazin-1-yl]phenyl]ethanone 871357-15-2P, 2-[4-(2-methoxyethyl)piperazin-1-yl]phenyl]ethanone 871357-15-2P, 2-[4-(2-Methoxyethyl)piperazin-1-yl]-6-(trifluoroacetyl)benzonitrile 871357-20-9P, 1-[2-Chloro-3-[4-(2-methoxyethyl)piperazin-1-yl]phenyl]-2,2,2-trifluoroethanone RI: PRG (Pharmacological activity); PRP (Properties); SPN (Synthetic

RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); TBU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of disubstituted phenylpiperidines/piperazines as modulators of dopamine neurotransmission)

RN 871355-49-6 CAPLUS

CN Ethanone, 1-[3-[4-(2-methoxyethy1)-1-piperaziny1]-2-methylpheny1]- (CA INDEX NAME)

RN 871355-53-2 CAPLUS

CN Ethanone, 1-[2-fluoro-3-[4-(2-methoxyethyl)-1-piperazinyl]phenyl]- (CA INDEX NAME)

RN 871355-57-6 CAPLUS

CN Benzonitrile, 2-acetyl-6-[4-(2-methoxyethyl)-1-piperazinyl]- (CA INDEX NAME)

RN 871355-61-2 CAPLUS

Cl

CN Ethanone, 1-[2-chloro-3-[4-(2-methoxyethy1)-1-piperaziny1]pheny1]- (CA INDEX NAME)

RN 871357-07-2 CAPLUS

CN Ethanone, 2,2,2-trifluoro-1-[3-[4-(2-methoxyethy1)-1-piperaziny1]-2-methylpheny1]- (CA INDEX NAME)

RN 871357-11-8 CAPLUS CN Ethanone, 2,2,2-tri

Ethanone, 2,2,2-trifluoro-1-[2-fluoro-3-[4-(2-methoxyethyl)-1-piperazinyl]phenyl]- (CA INDEX NAME)

RN 871357-15-2 CAPLUS

CN Benzonitrile, 2-[4-(2-methoxyethyl)-1-piperazinyl]-6-(2,2,2-trifluoroacetyl)- (CA INDEX NAME)

RN 871357-20-9 CAPLUS

CN Ethanone, 1-[2-chloro-3-[4-(2-methoxyethyl)-1-piperazinyl]phenyl]-2,2,2-trifluoro- (CA INDEX NAME)

REFERENCE COUNT:

11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:1078248 CAPLUS

DOCUMENT NUMBER: 143:360127

TITLE: Preparation of diagnostic and therapeutic alkyl piperidine/piperazine compounds for neuron imaging and

treating neurodegenerative disease

Elmaleh, David R.; Songwoon, Choi; Fishman, Alan J. INVENTOR(S):

PATENT ASSIGNEE(S): The General Hospital Corporation, USA

SOURCE: U.S. Pat. Appl. Publ., 21 pp.

CODEN: USXXCO Patent

DOCUMENT TYPE: LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--------|--------------|----------------------|----------|
| | | | | |
| US 20050222166 | A1 | 20051006 | US 2004-814118 | 20040331 |
| US 7381822 | B2 | 20080603 | | |
| PRIORITY APPLN. INFO.: | | | US 2004-814118 | 20040331 |
| OTHER SOURCE(S): | CASREA | CT 143:36012 | 7; MARPAT 143:360127 | |
| CT | | | | |

- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- Piperidine or piperazine compds. useful for treating neurodegenerative diseases characterized by the lack of dopamine neurons activity or for imaging the dopamine neurons are provided. The compds. are characterized by the formulas I-V: m=1-6; X, Y, Z1, Z2, and Z3=H, halo, haloalkyl,alkyl, aryl, (C1-C6) alkoxy, N-alkyl, (C2-C6) acyloxy, N-alkylene, -SH, -SR, wherein R is from the same group as R1 and R2, NH2, NO, CN, OH, COOR6, C(O)NR5R4, NR3R2, or S(O)kR1 wherein k = 1 or 2 and R1 to R6 = H or (C1-C6) alkyl; R1 and R2 = H, (C1-C6) alkyl, hydroxyalkyl or mercaptoalkyl, -COOR1, CN, (C1-C6)alkenyl, (C2-C6)alkynyl, or (un)substituted 1,2,4-oxadiazol-5-vl; R7= H, O or Ph; R8 = H, Ph, halophenyl, nitrophenyl, pyridyl, piperonyl or sulfoxonitrophenyl; W = O or S; T = NH2 or C1-C6 aminoalkyl; A = N or C; T= C1-C6 alkyl or sulfonyl; O=NH2 or C1-C6 amino alkvl.
- IΤ 728946-06-3P, 1-[4-[4-[4-[Bis(4-fluorophenyl)methoxy]butyl]piperaz in-1-yl]phenyl]ethanone oxalate

RL: DGN (Diagnostic use); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate: preparation of diagnostic and therapeutic alkyl piperidine/piperazine compds. for neuron imaging and treating neurodegenerative disease)

728946-06-3 CAPLUS RN

Ethanone, 1-[4-[4-[4-[bis(4-fluorophenvl)methoxv]butvl]-1-CN piperazinvl|phenvl|-, ethanedioate (1:1) (CA INDEX NAME)

CM 1

CRN 728946-05-2

CMF C29 H32 F2 N2 O2

CM 2

CRN 144-62-7 CMF C2 H2 O4

0 0 || || HO- C- C- OH

REFERENCE COUNT:

4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:8311 CAPLUS

DOCUMENT NUMBER: 142:116228

TITLE: Piperazine-based radiation curing sensitizers

INVENTOR(S): Davidson, Robert Stephen; Herlihy, Shaun Lawrence;

Rowatt, Brian
PATENT ASSIGNEE(S): Sun Chemical Limited, UK

SOURCE: Brit. UK Pat. Appl., 28 pp.

CODEN: BAXXDU
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

> PATENT NO. KIND DATE APPLICATION NO. ----A 20050105 GB 2003-15774 20030704 A1 20050127 WO 2004-US21370 20040702 GB 2403478 WO 2005007637 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, RW, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG EP 2004-777489 EP 1660470 20060531 20040702 A1 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK

TE, SI, FI, RO, CY, TR, BG, CZ, EB, HU, PL, SK
CN 1845912 A 20061011 CN 2004-80025346 20040702
US 20070066700 A1 20070322 US 2006-567310 20061129
PRIORITY APPLN. INFO.: GB 2003-15774 A 20030704
WO 2004-012521370 W 20040702

OTHER SOURCE(S): MARPAT 142:116228

$$\begin{bmatrix} R^{1} - CO & N - Z - Y - Q & X & I \end{bmatrix}$$

AB A piperazine-based compound of formula I and esters thereof are useful as sensitizers for use in radiation-curable compns., wherein: RI represents a Me group, an Et group, a C5 or C6 cycloalkyl group or a C6 - C10 aryl group, said aryl group being unsubstituted or being substituted by at least one C1 - C4 alkyl or alkoxy group; Z represents a C6 - C10 arylene group or a group of formula --(CHR4)n--, where R4 represents a hydrogen atom, a hydroxy group or a C1 - C4 alkyl group, and n is a number from 0 to 6; Y represents a carbonyl group or a --CH2-- group, provided that R4 represents a hydroxy group when Y represents a --CH2-- group; Q represents a residue of a mono- or poly-hydroxy compound having from 1 to 6 hydroxy

groups; and x is a number from 1 to 6.

IT 819866-13-2P

RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (piperazine-based radiation curing sensitizers)

RN 819866-13-2 CAPLUS

CN Ethanone, 1-[4-[4-[3-[2,2-bis[[3-[4-(4-acetylpheny1)-1-piperaziny1]-2hydroxypropoxy]methy1]butoxy]-2-hydroxypropy1]-1-piperaziny1]pheny1]- (CA INDEX NAME)

PAGE 1-A

PAGE 1-B



PAGE 2-A



REFERENCE COUNT:

1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:606436 CAPLUS

DOCUMENT NUMBER: 141:157135

TITLE: Preparation of piperidine and piperazine derivatives with dopaminergic neurotransmitter system activity for

diagnostic and therapeutic uses

Elmaleh, David R.; Choi, Sangwoon; Fishman, Alan J. INVENTOR(S):

PATENT ASSIGNEE(S): The General Hospital Corporation, USA

SOURCE: PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PA | PATENT NO. | | | | | D | DATE | | | APPL | ICAT | ION I | NO. | | D. | ATE | | |
|---------|------------------------|------|-----|-----|-----|-----|------|------|-----|------|------|-------|-----|-----|-----|------|-----|----|
| WO | 2004 | | | | A2 | | 2004 | 0729 | | WO 2 | 003- | US 41 | 731 | | 2 | 0031 | 231 | |
| WO | 2004 | 0631 | 50 | | A3 | | 2005 | 0602 | | | | | | | | | | |
| | W: | ΑE, | AG, | AL, | AM, | AT, | AU, | AZ, | BA, | BB, | BG, | BR, | BY, | BZ, | CA, | CH, | CN, | |
| | | CO, | CR, | CU, | CZ, | DE, | DK, | DM, | DZ, | EC, | EE, | ES, | FI, | GB, | GD, | GE, | GH, | |
| | | GM, | HR, | HU, | ID, | IL, | IN, | IS, | JP, | KE, | KG, | KP, | KR, | KZ, | LC, | LK, | LR, | |
| | | LS, | LT, | LU, | LV, | MA, | MD, | MG, | MK, | MN, | MW, | MX, | MZ, | NI, | NO, | NZ, | OM, | |
| | | PG, | PH, | PL, | PT, | RO, | RU, | SC, | SD, | SE, | SG, | SK, | SL, | SY, | TJ, | TM, | TN, | |
| | | TR, | TT, | TZ, | UA, | UG, | UZ, | VC, | VN, | YU, | ZA, | ZM, | ZW | | | | | |
| | RW: | BW, | GH, | GM, | KE, | LS, | MW, | MZ, | SD, | SL, | SZ, | TZ, | UG, | ZM, | ZW, | AM, | AZ, | |
| | | BY, | KG, | KZ, | MD, | RU, | TJ, | TM, | AT, | BE, | BG, | CH, | CY, | CZ, | DE, | DK, | EE, | |
| | | ES, | FI, | FR. | GB, | GR, | HU, | IE, | IT, | LU, | MC, | NL, | PT, | RO. | SE, | SI, | SK, | |
| | | TR, | BF, | ВJ, | CF, | CG, | CI, | CM, | GA, | GN, | GQ, | GW, | ML, | MR, | NE, | SN, | TD, | TG |
| AU | AU 2003300147 | | | | A1 | | 2004 | 0810 | | AU 2 | 003- | 3001 | 47 | | 2 | 0031 | 231 | |
| PRIORIT | PRIORITY APPLN. INFO.: | | | | | | | | | US 2 | 003- | 4378 | 85P | 1 | P 2 | 0030 | 106 | |
| | | | | | | | | | | WO 2 | 003- | US41 | 731 | 1 | W 2 | 0031 | 231 | |
| OTHER S | THER SOURCE(S): | | | | | | 141: | 1571 | 35 | | | | | | | | | |

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AB Piperazine derivs., such as I [R7 = H, Ph, :0; R8 = H, Ph, COMe, COPh, halophenyl, nitrophenyl, nitrophenylsulfonyl, piperonyl], were prepared for use in treating neurodegenerative diseases characterized by the lack of dopamine neurons activity or for imaging the dopamine neurons. Thus, piperazine derivative II (R7 = R8 = H) was prepared via an amination reaction with 30% yield of (F-4-C6H4)2CHO(CH2)4C1 and piperazine using K2CO3 in DMF. The prepared piperazines were assayed, for binding affinities at the

DA, 5-HT and NE transporters labeled with [1251]RTI-55.

728946-05-2P 728946-06-3P

RL: DGN (Diagnostic use); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of piperidine and piperazine derivs, with dopaminergic

neurotransmitter system activity for diagnostic and therapeutic uses) 728946-05-2 CAPLUS RN

CN

Ethanone, 1-[4-[4-[4-[bis(4-fluorophenyl)methoxy]butvl]-1piperazinyl]phenyl]- (CA INDEX NAME)

RN 728946-06-3 CAPLUS

CN Ethanone, 1-[4-[4-[4-[bis(4-fluorophenyl)methoxy]butyl]-1piperazinyl]phenyl]-, ethanedioate (1:1) (CA INDEX NAME)

CM

CRN 728946-05-2

CMF C29 H32 F2 N2 O2

CM 2

CRN 144-62-7 CMF C2 H2 O4

L6 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:832759 CAPLUS

DOCUMENT NUMBER: 137:353062

TITLE: Preparation of 2-iminopyrrolidine derivatives as

thrombin receptor antagonists

INVENTOR(S): Suzuki, Shuichi; Kotake, Makoto; Miyamoto, Mitsuaki;

Kawahara, Tetsuva; Kajiwara, Akiharu; Hishinuma, Ieharu; Okano, Kazuo; Miyazawa, Syuhei; Clark, Richard; Ozaki, Fumihiro; Sato, Nobuaki; Shinoda, Masanobu; Kamada, Atsushi; Tsukada, Itaru; Matsuura, Fumiyoshi; Naoe, Yoshimitsu; Terauchi, Taro; Oohashi, Yoshiaki; Ito, Osamu; Tanaka, Hiroshi; Musya, Takashi; Kogushi, Motoji; Kawada, Tsutomu; Matsuoka, Toshiyuki;

Kobayashi, Hiroko; Chiba, Kenichi; Kimura, Akifumi;

Ono, Naoto

PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan

SOURCE:

PCT Int. Appl., 948 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

| NO 2002085855 | PAT | TENT I | 40. | | | KIN | D | DATE | | | APPL | ICAT | ION : | NO. | | D. | ATE | |
|--|-----|--------|------|-----|-----|-----|-----|------|------|----------------|------|--------|-------|------|-----|-----|------|-----|
| CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GB, GE, GH GM, HR, HU, DJ, IL, IN, IS, JP, KE, KG, KF, KR, KZ, LC, LK, LR LS, LT, LU, LV, MA, MD, MG, MK, MM, MM, MX, MZ, NO, NZ, OM, PH PL, PT, RO, RU, SD, SS, GS, GI, SK, SL, IT, TM, TN, TT, TT, TZ UA, UG, US, UZ, VN, YU, ZA, ZM, ZW RN: GH, GM, KE, LS, MW, MS, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH BF, BJ, CF, CG, CI, CM, GA, GN, CG, GW, LM, MR, NE, NS, ND, TD, TG CA 2446924 A1 2002255269 A1 2002255269 A2 200202105 A2 20020215 A3 200202105 A3 20000015 A1 20021015 B2 20070315 A2 20040225 B2 20070315 B2 20020419 B2 20020255269 A2 20020419 B2 200204 | WO | 2002 | 0858 | 55 | | | | | | | | | | | | | | |
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AB 2-Iminopyrrolidine derivs. including 2,3-dihydro-lH-isoindole and 6,7-dihydro-5B-pyrrolig3,4-b)pyridine represented by the general formula (1) or salts thereof [wherein B = (un)substituted aromatic hydrocarbon or aromatic heterocyclic ring optionally containing 1 or 2 N atom(s); R101, R102, R103 = H, cyano, halo, each (un)substituted Cl-6 alkyl, C2-8 alkenyl, C2-8 alkynyl, acyl, CO2H, CONH2, C1-6 alkoxycarbonyl, C1-6 alkylaminocarbonyl, HO, C1-6 alkoxycarbonyl, R10, C1-6 alkoxycarbonyl, C1-6 alkylamino, C3-8 cycloalkylamino, NB2, C1-6 alkylamino, C3-8 cycloalkylamino, acylamino, wrido, Nul2, C1-6 alkylamino, S02NH2, C7-6 cycloalkylamino, acylamino, ureido, sulfonylamino, sulfonyl, S02NH2, C7-6 cycloalkyl, etc.; Y1 = a single bond, CH2)m, each (un)substituted C4, CH2, NH, CONH, or S02NH, CH2CO, SO, SO2, CO (wherein m = an integer of 1-3); Y2 = a single bond, O, N, (CH2)m, each (un)substituted CH, CH2, or

<12/04/2007> Erich Leese

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C(:NOH), CO, SO, SO2; Ar = H, (un)substituted Ph] are prepared These compds. are thrombin receptor antagonists, in particular thrombin PAR1 receptor antagonists and are useful as blood platelet aggregation inhibitors and proliferation inhibitors of smooth muscle cell, endothelial cell, fibroblast, kidney cell, osteosarcoma cell, muscle cell, cancer cell, and/or glial cell and for the treatment and/or prevention of thrombosis, vascular restenosis, deep vein thrombosis, lung embolism, cerebral infarction, heart disease, disseminated intravascular coaculation syndrome, hypertension, inflammation, rheumatism, asthma, glomerulonephritis, osteoporosis, nerve disease, and/or malignant tumor. Thus, [6-[(1-imino-1,3-dihydroisoindol-2-yl)acetyl]-2,3dihydrobenz[1,4]oxazin-4-yl]acetonitrile derivative (II) in vitro showed IC50 of 0.017 µM for inhibiting the binding of [3H]Ala-(4-fluoro)Phe-Arg-(cyclohexyl)Ala-homoArg-Tyr-NH2 to thrombin receptor of human blood platelet, that of 0.29 µM for inhibiting the human blood platelet aggregation induced by thrombin, and that of 0.0061 µM for inhibiting the proliferation of rat smooth cell.

IT 474544-64-4P 474623-38-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of dihydroisoindole and dihydro-5H-pyrrolo[3,4-b]pyridine derivs. as thrombin receptor antagonists and remedies and/or preventives for diseases)

RN 474544-64-4 CAPLUS

CN

1H-Isoindole-5-carboxamide, 2-[2-[3-(1,1-dimethylethyl)-4-methoxy-5-[4-(2-methoxyacetyl)-1-piperazinyl)phenyl]-2-oxethyl]-6-ethoxy-2,3-dihydro-3-imino-N-methyl-, hydrobromide (1:1) (CA INDEX NAME)

HBr

RN 474623-38-6 CAPLUS

CN Ethanone, 2-(5,6-diethoxy-7-fluoro-1,3-dihydro-1-imino-ZH-isoindo1-2-y1)-1-[3-(1,1-dimethylethyl)-4-methoxy-5-[4-(2-methoxyacetyl)-1piperazinyl]phenyl]-, hydrobromide (1:1) (CA INDEX NAME)

HBr

ΙT 474554-77-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of dihydroisoindole and dihydro-5H-pyrrolo[3,4-b]pyridine derivs. as thrombin receptor antagonists and remedies and/or preventives for diseases)

474554-77-3 CAPLUS
Piperazine, 1-[5-(bromoacetyl)-3-(1,1-dimethylethyl)-2-methoxyphenyl]-4-CN (ethoxyacetyl)- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

100 THERE ARE 100 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:246566 CAPLUS

DOCUMENT NUMBER: 134:280864

TITLE: Preparation of 6-azauracil derivatives as thyroid

receptor ligands

INVENTOR(S): Dow, Robert Lee; Chiang, Yuan-Ching Phoebe; Estep,

Kimberly Gail

PATENT ASSIGNEE(S): Pfizer Products Inc., USA

SOURCE:

Eur. Pat. Appl., 153 pp. CODEN: EPXXDW Patent

DOCUMENT TYPE: LANGUAGE:

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PA' | PATENT NO. | | | | KIND |) | DATE | | | APE | PLI | CAT | ION : | NO. | | | DA | ΤE | |
|----------|------------|-------|-------|-----|----------------|-----|----------------------|-------|-----|-----|-----|-----|-------|-----|-----|------------|----|------|-----|
| EP | | 819 | | | A2
A3
B1 | | 2001
2001
2005 | 0411 | | EP | 20 | 00- | 3081 | 12 | | | 20 | 000 | 918 |
| | | ΑT, | BE, | CH, | DE, | DK, | ES, | | GB, | GI | З, | IT, | LI, | LU, | NL, | SE | , | MC, | PT, |
| | | | SI, | LT, | LV, | | | | | | | | | | | | | | |
| AT | 2979 | 05 | | | T | | 2005 | 0715 | | AΤ | 20 | 00- | 3081 | 12 | | | 20 | 000 | 918 |
| PT | 1088 | 819 | | | T | | 2005 | 0930 | | PT | 20 | 00- | 3081 | 12 | | | 20 | 000 | 918 |
| ES | 2240 | 017 | | | Т3 | | 2005 | 1016 | | ES | 20 | 00- | 3081 | 12 | | | 20 | 000 | 918 |
| JP | 2001 | 1147 | 68 | | A | | 2001 | 0424 | | JP | 20 | 00- | 2828 | 82 | | | 20 | 000 | 919 |
| JP | 3763 | 565 | | | B2 | | 2006 | 0405 | | | | | | | | | | | |
| US | 678 | 652 | | | B1 | | 2004 | 0907 | | US | 20 | 00- | 6716 | 68 | | | 20 | 000 | 927 |
| CA | 2321 | 380 | | | A1 | | 2001 | 0330 | | CA | 20 | 00- | 2321 | 380 | | | 20 | 000 | 928 |
| | 2321 | | | | С | | 2006 | 0530 | | | | | | | | | | | |
| BR | 2000 | 00045 | 39 | | Ā | | 2001 | | | BR | 20 | 00- | 4539 | | | | 20 | 000 | 929 |
| | | PA09 | | | A | | 2002 | | | | | | | 41 | | | | 001 | |
| | | 0157 | | | A1 | | 2004 | | | | | | | 51 | | | | 040 | |
| | 6930 | | | | B2 | | 2005 | | | | | | | - | | | | 0 10 | |
| PRIORIT | | | TNEO | | 22 | | 2000 | 0010 | | 211 | 10 | 00_ | 1569 | 42P | | ь | 10 | aan | 30 |
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| OTHER S | OURCE | (S): | | | MARE | AT | 134: | 28086 | 54 | ۵٥ | 20 | 00- | 0,10 | 00 | | U 1 | 20 | 000 | 261 |

AB Title compds. [I; W = O, S, SO, SO2, NR30, CO, CH:CH, CH2, CHF, CF2, CH(OH); Rl, R2 = H, halo, alkyl, cyano, OR12, CF3; R3 = H, halo, cyano, NO2, (substituted) alkyl, etc.; R4 = CR14R15R16, CONR19R20, aryl, heteroaryl, etc.; R3R4 = (CH2)b, Q(CH2)c, etc.; b = 3-7; c = 2-6; R5 =

OR23; R4R5 = CR31:CR32NH, CR31:CR32S, etc.; R7 = H, alkyl, haloalkyl, (CH2)nCO2R9; n = 0-3; R8 = H, alkyl, CO2R9, CONR10R11; R9 = (substituted) alkyl, alkenyl, dialkenyl, cycloalkyl, aryl, heterocyclyl; R10, R11 = H, (substituted) alkyl, cycloalkyl, alkenyl, heterocyclyl; R10R11 = heterocyclyl; R12 = H, (substituted) alkyl; R14 = H, alkyl, OR34; R15 = H, alkyl; R14R15 = 0; R16 = H, (substituted) alkyl, alkylcycloalkyl, alkylaryl, alkylheterocyclyl; R19, R20 = H, (substituted) alkyl, aryl, aralkyl, heterocyclyl, heterocyclylalkyl, cycloalkyl, etc.; R23 = H, (substituted) alkyl, COR24; R24 = H, (substituted) alkyl, alkenyl, cycloalkyl, aryl, heteroaryl; R30 = H, (substituted) alkyl, alkenyl, cycloalkyl, COR31, etc.; R31 = H, (substituted) alkyl, alkenyl, cycloalkyl, aryl, heteroaryl, etc.; R32 = H, (substituted) alkyl, alkenyl, cycloalkyl, aryl, heterocyclyl; R34 = (substituted) aryl, heterocyclyl, alkyl, alkenyl, cycloalkyl], were prepared for treatment of obesity, hyperlipidemia, thyroid disease, hypothyroidism, thyroid cancer, diabetes, atherosclerosis, hypertension, coronary heart disease, hypercholesteremia, depression, osteoporosis, cardiac arrhythmia, glaucoma and heart failure (no data). Thus, [[[4-(3-bromo-4-methoxyphenoxy)-3,5dimethylphenyl]hydrazono]cyanoacetyl]carbamic acid Et ester (preparation given) was heated with KOAc in HOAc at 120° for 5 h to give 2-[4-(3-bromo-4-methoxyphenoxy)-3,5-dimethylphenyl]-3,5-dioxo-2,3,4,5tetrahydro-1,2,4-triazine-6-carbonitrile.

IT 332933-26-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of azauracil derivs. as thyroid receptor ligands)

RN 332933-26-3 CAPLUS

CN 1,2,4-Triazine-6-carboxylic acid, 2-[4-(3-bromo-4-methoxyphenoxy)-3,5-dimethylphenyl]-2,3,4,5-tetrahydro-3,5-dioxo-, 2-[4-(4-acetylphenyl)-1-piperazinyl]ethyl ester (CA INDEX NAME)

PAGE 1-A
Br
N
N
CH2-CH2-O-C
N
Me
Me

PAGE 1-B

- OMe

| => file reg
COST IN U.S. DOLLARS
FULL ESTIMATED COST | SINCE FILE
ENTRY
44.39 | TOTAL
SESSION
423.43 |
|--|------------------------------|----------------------------|
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE
ENTRY | TOTAL |
| CA SUBSCRIBER PRICE | -5.60 | -8.00 |

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STRUCTURE FILE UPDATES: 29 JUN 2008 HIGHEST RN 1031692-95-1 DICTIONARY FILE UPDATES: 29 JUN 2008 HIGHEST RN 1031692-95-1

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http://www.cas.org/support/stngen/stndoc/properties.html

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Uploading C:\Program Files\Stnexp\Queries\10567310last.str





```
chain nodes :
14 15 16 18 19 20 21 24 25 26 27 28 29 30 31
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
5-8 7-24 7-25 9-30 9-31 10-28 10-29 11-14 12-26 12-27 14-18 14-15 15-16
19-20 19-21
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
5-8 7-8 7-12 7-24 7-25 8-9 9-10 9-30 9-31 10-11 10-28 10-29 11-12
11-14 12-26 12-27 14-18 14-15 15-16 19-20 19-21
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 : 7 :
G1:Cb, Ak
```

G2:H,O

__.,

G3:C,H

Match level: 1:4htom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 14:CLASS 15:CLASS 16:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 23:Atom 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 27:CLASS 28:CLASS 29:CLASS 27:CLASS 28:CLASS 27:CLASS 28:CLASS 27:CLASS 28:CLASS 27:CLASS 28:CLASS 29:CLASS 27:CLASS 28:CLASS 27:CLASS 28:CLASS 29:CLASS 29

L7 STRUCTURE UPLOADED

=> d 17 L7 HAS NO ANSWERS L7 STR

G1 Cb, Ak

G2 H, O

G3 C,H

Structure attributes must be viewed using STN Express query preparation.

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=> s 17 full
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FULL SEARCH INITIATED 17:55:42 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 223433 TO ITERATE

100.0% PROCESSED 223433 ITERATIONS SEARCH TIME: 00.00.03

0 ANSWERS

0 SEA SSS FUL L7 L8

=> d his

(FILE 'HOME' ENTERED AT 17:39:05 ON 30 JUN 2008)

FILE 'REGISTRY' ENTERED AT 17:39:14 ON 30 JUN 2008 L1 STRUCTURE UPLOADED

14 S L1 FULL

FILE 'CAPLUS' ENTERED AT 17:40:00 ON 30 JUN 2008 L3 3 S L2 FULL

FILE 'REGISTRY' ENTERED AT 17:47:00 ON 30 JUN 2008 STRUCTURE UPLOADED

L4

117 S L4 FULL L5

FILE 'CAPLUS' ENTERED AT 17:47:32 ON 30 JUN 2008 7 S L5 FULL L6

FILE 'REGISTRY' ENTERED AT 17:55:11 ON 30 JUN 2008 STRUCTURE UPLOADED

1.8 0 S L7 FULL

<12/04/2007>

Erich Leese

=> log v

| FULL ESTIMATED COST ENTRY SESSION 178.82 602.25 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY SESSION ENTRY SESSION | -> log y
COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
|--|--|------------|--------|
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION | | | |
| ENTRY SESSION | FULL ESTIMATED COST | 178.82 | 602.25 |
| CA SUBSCRIBER PRICE 0.00 -8.0 | DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | | TOTAL |
| | CA SUBSCRIBER PRICE | | -8.00 |

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